Abstract

This paper discusses about a simple Humanoid platform EkInBot, specifically designed for Human Robot Interaction Using Dynamic Finger gestures. EkInBot stands for Electronically Interactive Robot and has 8 Degrees of Freedom. The paper emphasis on design and realization of a simplified humanoid robot and implementing finger gesture identification using a system analogous to Data Glove. The proposed gesture recognition mechanism has accelerometer sensors, that tracks finger movements and moves the robot with respect to it.

References

- Hari Krishnan R, Vallikannu A. L, "Design and Implementation of Simplified Humanoid Robot with 8 DoF," in Proc. Of IRNet Int. Conf. on Computational Vision and
EkInBot- A Humanoid Platform for Human Robot Interaction using Finger Gesture Identification

Robotics 2012, pp. 07-12
- Andre Senior, Sabri Tosunoglu, "Robust Bipedal Walking: The Clyon Project," The 18th Florida Conf. on Recent Advances in Robotics, 2005

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